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L1	1	(chick or chicken) near4 myoD	USPAT	OR	OFF	2005/10/04 20:42

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=> s (chick or chicken) (4A) myoD  
L1 88 (CHICK OR CHICKEN) (4A) MYOD

=> s (myoD) (4A) (fragment or (fusion protein) or antibody)  
L2 109 (MYOD) (4A) (FRAGMENT OR (FUSION PROTEIN) OR ANTIBODY)

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L4 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1  
AN 97164703 MEDLINE  
DN PubMed ID: 9012510  
TI The distal limb environment regulates MyoD accumulation and  
muscle  
differentiation in mouse-chick chimaeric limbs.  
AU Robson L G; Hughes S M  
CS MRC Muscle and Cell Motility Unit and Developmental Biology  
Research

SO Centre, The Randall Institute, King's College London, UK.  
Development (Cambridge, England), (1996 Dec) 122 (12) 3899-910.  
Journal code: 8701744. ISSN: 0950-1991.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199702

ED Entered STN: 19970306  
Last Updated on STN: 19970306  
Entered Medline: 19970224

AB Differentiation of muscle and cartilage within developing vertebrate limbs occurs in a proximodistal progression. To investigate the cues responsible for regulating muscle pattern, mouse myoblasts were implanted into early chick wings prior to endogenous chick muscle differentiation. Fetal myogenic cells originating from transgenic mice carrying a lacZ reporter were readily detected *in vivo* after implantation and their state of differentiation determined with species-specific antibodies to MyoD and myosin heavy chain. When mouse myogenic cells are implanted at the growing tip of early stage 21 limbs MyoD expression is suppressed and little differentiation of the mouse cells is detected initially. At later stages ectopically implanted mouse cells come to lie within muscle masses, re-express MyoD and differentiate in parallel with differentiating chick myoblasts. However, if mouse cells are implanted either proximally at stage 21 or into the limb tip at stage 24, situations in which mouse cells encounter endogenous differentiating chick myoblasts earlier, MyoD suppression is not detected and a higher proportion of mouse cells differentiate. Mouse cells that remain distal to endogenous differentiating myogenic cells are more likely to remain undifferentiated than myoblasts that lie within differentiated chick muscle. Undifferentiated distal mouse cells are still capable of differentiating if explanted *in vitro*, suggesting that myoblast differentiation is inhibited *in vivo*. In *vitro*, MyoD is suppressed in primary mouse myoblasts by the addition of FGF2 and FGF4 to the culture media. Taken together, our data suggest that the inhibition of myogenic

differentiation in the distal limb involves MyoD suppression in myoblasts,  
possibly through an FGF-like activity.



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- 1: [Simone C, Stiegler P, Bagella L, Pucci B, Bellan C, De Falco G, De Luca A, Guanti G, Puri PL, Giordano A.](#) Related Articles, Links  
Activation of MyoD-dependent transcription by cdk9/cyclin T2. *Oncogene*. 2002 Jun 13;21(26):4137-48.  
PMID: 12037670 [PubMed - indexed for MEDLINE]
- 2: [Zhang JM, Zhao X, Wei Q, Paterson BM.](#) Related Articles, Links  
Direct inhibition of G(1) cdk kinase activity by MyoD promotes myoblast cell cycle withdrawal and terminal differentiation. *EMBO J*. 1999 Dec 15;18(24):6983-93.  
PMID: 10601020 [PubMed - indexed for MEDLINE]
- 3: [Zhang JM, Wei Q, Zhao X, Paterson BM.](#) Related Articles, Links  
Coupling of the cell cycle and myogenesis through the cyclin D1-dependent interaction of MyoD with cdk4. *EMBO J*. 1999 Feb 15;18(4):926-33.  
PMID: 10022835 [PubMed - indexed for MEDLINE]
- 4: [Flink IL, Oana S, Maitra N, Bahl JJ, Morkin E.](#) Related Articles, Links  
Changes in E2F complexes containing retinoblastoma protein family members and increased cyclin-dependent kinase inhibitor activities during terminal differentiation of cardiomyocytes. *J Mol Cell Cardiol*. 1998 Mar;30(3):563-78.  
PMID: 9515032 [PubMed - indexed for MEDLINE]